

EXHIBIT 1

UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN FRANCISCO DIVISION

WAYMO LLC,

Plaintiff,

vs.

Case No.

UBER TECHNOLOGIES, INC.;

3:17-cv-00939-WHA

OTTOMOTTO LLC; OTTO TRUCKING LLC,

Defendants.

_____ /

HIGHLY CONFIDENTIAL - ATTORNEYS' EYES ONLY

VIDEOTAPED DEPOSITION OF ANDREW WOLFE, Ph.D.

FRIDAY, AUGUST 11, 2017

Reported by:

Anrae Wimberley

CSR No. 7778

Job No. 2678828

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1 very, very little difference between them. 10:41:12

2 So when it tells us that it's reverse 10:41:15

3 biased -- if, for example, we were to look at the 10:41:22

4 figure that I have on page 18, it's telling us here 10:41:28

5 that it's just a tiny bit to the left of the axis line 10:41:34

6 into the blue region. 10:41:38

7 So if we were to be hypertechnical about it, 10:41:40

8 there would be a very, very small reverse current, but 10:41:51

9 it's right up against the point where it would be 10:41:54

10 zero. So -- 10:41:57

11 BY MS. YANG:

12 Q. Well -- 10:41:58

13 A. The words "reverse biased" tell us that it 10:42:01

14 exists, but we're right up against the null point in 10:42:06

15 that particular situation that's being described 10:42:09

16 there. So the current is about close to zero as 10:42:12

17 anybody would care about. 10:42:14

18 Q. And earlier today, an hour ago, we talked 10:42:18

19 about the curve IInd in Figure 5B. And at least as 10:42:22

20 illustrated in Figure 5B, the curve at T2 goes to zero 10:42:28

21 and stays at zero until at least about the point TRx 10:42:33

22 in this figure; is that correct? 10:42:36

23 MR. NEWTON: Objection; form. 10:42:50

24 THE WITNESS: Yeah, at least close enough to zero 10:42:52

25 that nobody would care about it. It would not stay at 10:42:55

1 patent, that's true. 11:57:17

2 Q. That blocks current flow. 11:57:20

3 And then returning to paragraph 52 of your 11:57:23

4 report, you state, "When a negative voltage is applied 11:57:36

5 across the terminals, the diode becomes 'reverse 11:57:39

6 biased' and restricts current flow in the opposite 11:57:42

7 direction." 11:57:43

8 And that's your statement there; is that 11:57:45

9 correct? 11:57:46

10 A. Yes. 11:57:46

11 Q. So what is the difference between blocking 11:57:49

12 the current flow, as stated in paragraph 44, and 11:57:52

13 restricting the current flow, as stated in paragraph 11:57:55

14 52? 11:57:56

15 A. We went through this all before. My answers 11:58:00

16 are the same. 11:58:01

17 Blocking is a shorthand. We're talking about 11:58:05

18 a point in the curve that you can see in paragraph 53 11:58:08

19 that is right up against the zero current axis. So 11:58:17

20 while describing the diode as reverse biased means 11:58:27

21 that there could be some current flow in the negative 11:58:33

22 direction, at the point that's being discussed in that 11:58:38

23 previous comment, it is very, very close to zero. 11:58:42

24 Q. How long is the diode -- how long is the 11:58:52

25 current flow blocked while diode 514 is reverse 11:58:55

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1 here. 12:24:30

2 When you describe in your declaration, 12:24:36

3 paragraph 44, that "the diode 414 becomes reverse 12:24:39

4 biased to block the current flow," you mean that in 12:24:42

5 sort of the ideal physics -- law of physics 12:24:45

6 theoretical sense, correct, that the flow is blocked, 12:24:49

7 obviously there's some small -- orders of magnitude 12:24:53

8 smaller reverse current, but the flow overall is 12:24:58

9 blocked at -- when the diode is reverse biased; is 12:25:01

10 that correct? 12:25:03

11 A. No. I mean what I explained before. Because 12:25:03

12 the voltage is very low that, for a practical sense, 12:25:08

13 it's blocked. That's the patentee's language, not 12:25:11

14 mine. I'm just repeating it. But that's what 12:25:15

15 "blocked" means in that sense, is that it's reverse 12:25:17

16 biased because we're near the zero point and there's 12:25:22

17 little or no current that's flowing. 12:25:25

18 Q. Finally, returning to paragraph 52 of 12:25:41

19 your -- turning to paragraph 52 of your declaration, 12:25:46

20 just to be clear, you use the words "the diode becomes 12:25:50

21 'reversed biased' and restricts the current flow in 12:25:53

22 the opposite direction." 12:25:54

23 You don't use the word "resists" the current 12:25:58

24 flow; is that correct? 12:25:58

25 A. It's true that I didn't use that word, but as 12:26:01

FEDERAL CERTIFICATE OF DEPOSITION OFFICER

I, ANRAE WIMBERLEY, CSR NO. 7778, do hereby
declare:

That, prior to being examined, the witness named
in the foregoing deposition was by me duly sworn
pursuant to Section 30(f)(1) of the Federal Rules of
Civil Procedure and the deposition is a true record of
the testimony given by the witness;

That said deposition was taken down by me in
shorthand at the time and place therein named and
thereafter reduced to text under my direction;

----- That the witness was requested to
review the transcript and make any changes to the
transcript as a result of that review pursuant to
Section 30(e) of the Federal Rules of Civil Procedure;

----- No changes have been provided by the
witness during the period allowed;

----- The changes made by the witness are
appended to the transcript;

----- No request was made that the transcript
be reviewed pursuant to Section 30(e) of the Federal
Rules of Civil Procedure.

I further declare that I have no interest in the
event of the action.

I declare under penalty of perjury under the laws
of the United States of America that the foregoing is
true and correct.

WITNESS my hand this 14th day of August, 2017.



ANRAE WIMBERLEY, CSR NO. 7778